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29 July 2002 (29.07.2002) US

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(72) Inventor; and

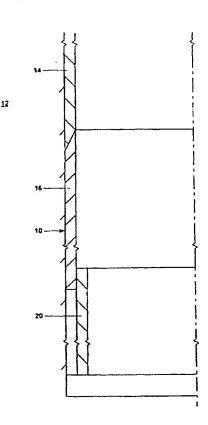
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- (74) Agents: MATTINGLY, Todd et al.; Haynes and Boone. LLP, Suite 3100, 901 Main Street, Dallas, TX 75202 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU. CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM. HR, HU. ID, IL, IN. IS, JP, KE, KG, KP, KR, KZ, LC. LK, LR, LS, ET, LU, LV, MA, MD, MG, MK, MN, MW. MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO.

[Continued on next page]

(54) Title: METHOD OF FORMING A MONO DIAMETER WELLBORE CASING



(57) Abstract: A method of forming a wellbore easing that includes positioning a first wellbore casing (14) within and coupling to a borehole (10), positioning a second wellbore casing (16) within the borehole that overlaps with and is coupled to the first wellbore casing (14), positioning a tubular liner (18) within the borehole that overlaps with and is coupled to at a least a portion of the second wellbore casing (16), extending the length of the borehole (10), decoupling the liner (18) from the second casing (16) and removing the liner from the borehole, and positioning a third wellbore casing (20) within the borehole that overlaps with and is coupled to the second wellbore casing (16).

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SE, SI, SK, TR). OAPI patent (BE, BJ, CE, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

#### AMENDED CLAIMS

[received by the International Bureau on 20 July 2004 (20.07.04); claims 21 to 30 added]

21. A method of forming a wellbore casing within a borchole that traverses a subterranean formation, comprising:

positioning a tubular liner within the horehole; extending the length of the borehole; removing the tubular liner from the borehole; positioning a wellbore casing within the borehole; and coupling the wellbore casing to the borehole.

22. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

positioning a tubular liner within the borehole that overlaps with and is coupled to at least a portion of the first wellbore casing;

extending the length of the borehole;

decoupling the tubular liner from the first wellbore casing and removing the tubular liner from the borehole; and

positioning a second wellbore casing within the boxeshole that overlaps with and is coupled to the first wellbore casing.

23. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a tubular liner within the borehole;
means for extending the length of the borehole;
means for removing the tubular liner from the borehole;
means for positioning a wellbore casing within the borehole; and
means for coupling the wellbore casing to the borehole.

24. A system for forming a wellbore casing within a Borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

means for positioning a tubular liner within the burchole that overlaps with and is coupled to at least a portion of the first wellbore easing;

means for extending the length of the horehole;

**AMENDED SHEET (ARTICLE 19)** 

means for decoupling the tubular liner from the first wellbore easing and removing the tubular liner from the borehole; and

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

25. A method of forming a wellhore casing within a boxehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing;

preventing the second wellhore casing from collapsing;

extending the length of the borehole; and

positioning a third wellbore casing within the borehole that overlaps with and is coupled to the second wellbore casing.

26. A method of forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

preventing the borehole from collapsing; extending the length of the borehole; positioning a wellbore casing within the borehole; and coupling the wellbore easing to the borehole.

27. A method of forming a wellbore easing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

preventing the first wellbore casing from collapsing;

extending the length of the borehole; and

positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

28. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole:

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore easing;

means for preventing the second wellbore casing from collapsing;

means for extending the length of the borehole; and

means for positioning a third wellbore easing within the borchole that overlaps with and is coupled to the second wellbore easing.

29. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for preventing the borehole from collapsing;
means for extending the length of the borehole;
means for positioning a wellbore casing within the borehole; and
means for coupling the wellbore casing to the borehole.

30. A system for forming a wellbore casing within a borehole that traverses a subterranean formation, comprising:

means for positioning a first wellbore casing within and coupling the first wellbore casing to the borehole;

means for preventing the first wellbore casing from collapsing;

means for extending the length of the borehole; and

means for positioning a second wellbore casing within the borehole that overlaps with and is coupled to the first wellbore casing.

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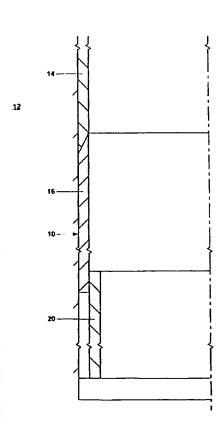
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(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

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GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/20870

A. CLAS	SIFICATION OF SUBJECT MATTER			
IPC(7)				
US CL	: 175/171; 166/380, 207, 208 International Patent Classification (IPC) or to both na	ational classification and IPC	RECEIVE	
	DS SEARCHED		OCT 2 2 2004	
U.S. : 17	rumentation searched (classification system followed   75/171; 166/380, 207, 208, 206, 216, 217, 277		HAYNES & BOONE LI	
Documentation	on searched other than minimum documentation to the	extent that such documents are included	in the fields searched	
Electronic da EAST: wellb	ta base consulted during the international search (namore, casing, coupling, liner, decoupling, expanding, r	ne of data base and, where practicable, so mono diameter	earch terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
Α	US 1,880,218 A (SIMMONS) 1 October 1930 (01.10.1930), Figures 3 and 4.		1, 3, 4, 6, 7, 11, 13, 14, 16, 17, 19, 20	
Α	US 6,543,552 B1 (METCALFE et al) 8 April 2003 (08.04.2003), Figures 1-5.			
Α	US 4,483,399 A (COLGATE) 20 November 1984 (20.11.1984), Figure 2.		1, 11	
A	US 6,598,678 B1 (SIMPSON et al) 29 July 2003 (29.07.2003), Figures 13 and 14.		1, 2, 11, 12	
Α	US 6,550,539 B2 (MAGUIRE et al) 22 April 2003 (22.04.2003), Figures 4a-4f.		1, 2, 11, 12	
Α	US 6,070,671 A (CUMMING et al) 6 June 2000 (05.05.2000), Figures 1-4.		3, 4, 6, 7, 9, 10, 13, 14, 16, 17, 19, 20	
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.		
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priority	date claimed	Date of mailing of the international ser	arch report	
Date of the actual completion of the international search		2 4 MAY 2004		
17 October 2003 (17.10.2003)  Name and mailing address of the ISA/US  Althorized officer				
M. Co P.	pailing address of the ISA/US ministioner for Patents O. Box 1450 exandria, Virginia 22313-1450	David Bagnor Telephone No. 703-306-4198		
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